

Search History for 10/016,403

	SINCE FILE ENTRY	TOTAL SESSION
=> file registry COST IN U.S. DOLLARS		
FULL ESTIMATED COST	0.42	0.42

FILE 'REGISTRY' ENTERED AT 06:41:47 ON 14 MAR 2007  
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Property values tagged with IC are from the ZIC/VINITI data file  
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STRUCTURE FILE UPDATES: 12 MAR 2007 HIGHEST RN 926069-79-6  
DICTIONARY FILE UPDATES: 12 MAR 2007 HIGHEST RN 926069-79-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> s YADAIFTNSYRKVLGQLSARKLLQDIMSQQGESNQERGARARL/sqsp  
L1 115 YADAIFTNSYRKVLGQLSARKLLQDIMSQQGESNQERGARARL/SQSP

=> s YADAIFTNSYRKVLGQLSARKLLQDIMSQQGESNQERGARARL/sqep  
64 YADAIFTNSYRKVLGQLSARKLLQDIMSQQGESNQERGARARL/SQEP  
31683 SQL=44  
L2 64 YADAIFTNSYRKVLGQLSARKLLQDIMSQQGESNQERGARARL/SQEP  
(YADAIFTNSYRKVLGQLSARKLLQDIMSQQGESNQERGARARL/SQEP AND SQL=44)

=> s YADAIFTNSYRKVLG [QH] LSARKLL [QH] DIMSR [QH] [QH] GESN [QH] ERGARARL/sqsp  
L3 116 YADAIFTNSYRKVLG [QH] LSARKLL [QH] DIMSR [QH] [QH] GESN [QH] ERGARARL/SQSP

=> s YADAIFTNSYRKVLG [QH] LSARKLL [QH] DIMSR [QH] [QH] GESN [QH] ERGARARL/sqep  
GAPS, WILDCARDS, AND BRACKETS ARE INVALID FOR "EXACT" SEQUENCE FIELD CODES.

	SINCE FILE ENTRY	TOTAL SESSION
=> file .djs COST IN U.S. DOLLARS		
FULL ESTIMATED COST	67.75	68.17

FILE 'MEDLINE' ENTERED AT 06:44:05 ON 14 MAR 2007

FILE 'AGRICOLA' ENTERED AT 06:44:05 ON 14 MAR 2007

FILE 'CAPLUS' ENTERED AT 06:44:05 ON 14 MAR 2007  
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FILE 'BIOSIS' ENTERED AT 06:44:05 ON 14 MAR 2007  
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Search History for 10/016,403

(FILE 'HOME' ENTERED AT 06:40:52 ON 14 MAR 2007)

FILE 'REGISTRY' ENTERED AT 06:41:47 ON 14 MAR 2007

L1            115 S YADAIFTNSYRKVLGQLSARKLLQDIMSQQGESNQERGARARL/SQSP  
L2            64 S YADAIFTNSYRKVLGQLSARKLLQDIMSQQGESNQERGARARL/SQEP  
L3            116 S YADAIFTNSYRKVLG [QH] LSARKLL [QH] DIMSR [QH] [QH] GESN [QH] ERGARARL/S

FILE 'MEDLINE, AGRICOLA, CAPLUS, BIOSIS, EMBASE, WPIDS' ENTERED AT 06:44:05 ON 14 MAR 2007

FILE 'MEDLINE, AGRICOLA, CAPLUS, BIOSIS, EMBASE, WPIDS, USPATFULL' ENTERED AT 06:44:16 ON 14 MAR 2007

L4            5544 S L1 OR L2  
L5            5544 S L3  
L6            0 S L5 NOT L4

FILE 'REGISTRY' ENTERED AT 06:45:26 ON 14 MAR 2007

L7            1 S L3 NOT (L1 OR L2)

FILE 'MEDLINE, AGRICOLA, CAPLUS, BIOSIS, EMBASE, WPIDS' ENTERED AT 06:46:19 ON 14 MAR 2007

L8            1 S L7

Search History for 10/016,403

FILE 'EMBASE' ENTERED AT 06:44:05 ON 14 MAR 2007  
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FILE 'WPIDS' ENTERED AT 06:44:05 ON 14 MAR 2007  
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=> file .djs uspatfull	COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST		8.15	76.32

FILE 'MEDLINE' ENTERED AT 06:44:16 ON 14 MAR 2007

FILE 'AGRICOLA' ENTERED AT 06:44:16 ON 14 MAR 2007

FILE 'CAPLUS' ENTERED AT 06:44:16 ON 14 MAR 2007  
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FILE 'USPATFULL' ENTERED AT 06:44:16 ON 14 MAR 2007  
CA INDEXING COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

=> s 11 or 12  
'SQSP' IS NOT A VALID FIELD CODE  
'SQEP' IS NOT A VALID FIELD CODE  
L4 5544 L1 OR L2

=> s 13  
'SQSP' IS NOT A VALID FIELD CODE  
L5 5544 L3

=> s 15 not 14  
L6 0 L5 NOT L4

=> file registry	COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST		39.12	115.44

FILE 'REGISTRY' ENTERED AT 06:45:26 ON 14 MAR 2007  
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<http://www.cas.org/ONLINE/UG/regprops.html>

=> s l3 not (l1 or l2)  
L7 1 L3 NOT (L1 OR L2)

=> d 17

L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN  
RN 186206-31-5 REGISTRY  
ED Entered STN: 18 Feb 1997  
CN L-Leucinamide, L-tyrosyl-L-alanyl-L- $\alpha$ -aspartyl-L-alanyl-L-isoleucyl-L-phenylalanyl-L-threonyl-L-asparaginyl-L-seryl-L-tyrosyl-L-arginyl-L-lysyl-L-valyl-L-leucylglycyl-L-histidyl-L-leucyl-L-seryl-L-alanyl-L-arginyl-L-lysyl-L-leucyl-L-leucyl-L-histidyl-L- $\alpha$ -aspartyl-L-isoleucyl-L-methionyl-L-seryl-L-arginyl-L-histidyl-L-histidylglycyl-L- $\alpha$ -glutamyl-L-seryl-L-asparaginyl-L-histidyl-L- $\alpha$ -glutamyl-L-arginylglycyl-L-alanyl-L-arginyl-L-alanyl-L-arginyl- (9CI) (CA INDEX NAME)  
FS PROTEIN SEQUENCE  
MF C220 H353 N77 O61 S  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*  
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.40	117.84

FILE 'MEDLINE' ENTERED AT 06:46:19 ON 14 MAR 2007

FILE 'AGRICOLA' ENTERED AT 06:46:19 ON 14 MAR 2007

FILE 'CAPLUS' ENTERED AT 06:46:19 ON 14 MAR 2007  
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FILE 'WPIDS' ENTERED AT 06:46:19 ON 14 MAR 2007

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=> s 17  
'SQSP' IS NOT A VALID FIELD CODE  
'SQEP' IS NOT A VALID FIELD CODE  
L8 1 L7

=> d ibib abs 18

L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1997:116494 CAPLUS  
DOCUMENT NUMBER: 126:113153  
TITLE: Modification of polypeptide drugs to increase  
electrotransport flux  
INVENTOR(S): Holladay, Leslie A.  
PATENT ASSIGNEE(S): Alza Corporation, USA  
SOURCE: PCT Int. Appl., 32 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9639422	A2	19961212	WO 1996-US9377	19960606
WO 9639422	A3	19970306		
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CI, CM, GA, GN				
NL 1003283	A1	19961209	NL 1996-1003283	19960606
NL 1003283	C2	19970502		
CA 2220146	A1	19961212	CA 1996-2220146	19960606
FR 2735132	A1	19961213	FR 1996-7002	19960606
FR 2735132	B1	19980424		
AU 9665903	A	19961224	AU 1996-65903	19960606
BE 1009704	A3	19970701	BE 1996-517	19960606
GB 2317179	A	19980318	GB 1997-25981	19960606
GB 2317179	B	19990728		
DE 19681439	T0	19980723	DE 1996-19681439	19960606
BR 9609149	A	19990223	BR 1996-9149	19960606
JP 11507341	T	19990629	JP 1997-501710	19960606
US 2002107505	A1	20020808	US 2001-16403	20011210
PRIORITY APPLN. INFO.:			US 1995-466610	A 19950606
			WO 1996-US9377	W 19960606

AB Methods of modifying polypeptide drugs in order to enhance their transdermal electrotransport flux are provided. The polypeptide is modified by substituting a histidine residue (His) for one or more glutamine (Gln), threonine (Thr) and/or asparagine (Asn) residue(s). The His for Gln substitution is particularly preferred from the standpoint of retaining biol. activity of the parent polypeptide. Compns. containing the modified polypeptide, which are useful for transdermal electrotransport delivery, are also provided. Analogs, e.g. a PTH analog, showed improved electrotransport plasma levels. A schematic drawing of an electrotransport drug delivery device is included.